

This listing of claims will replace all prior versions, and listings, of claims in the application:

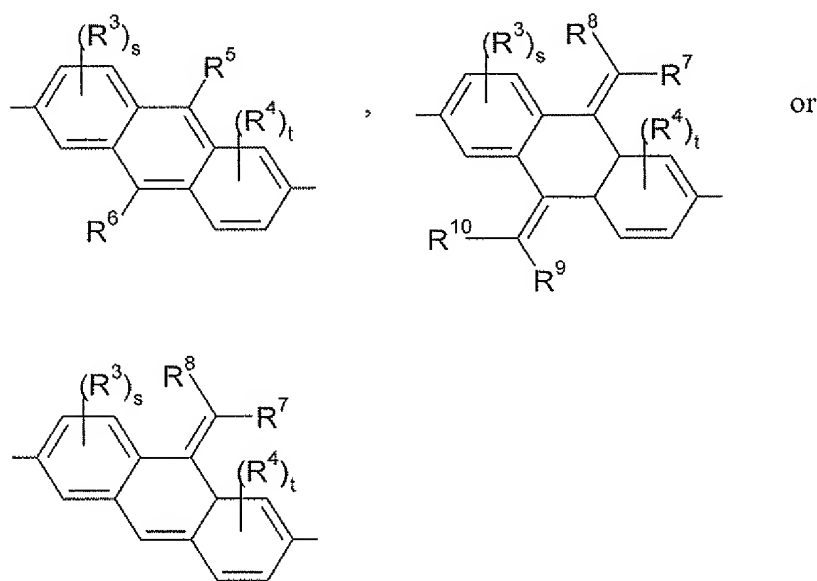
**Listing of Claims:**

1. (Cancelled)
2. (Previously Presented) A compound comprising identical or different groups of formula II



wherein

G is, in case of multiple occurrence independently of one another,



$R^3$  to  $R^6$  are, independently of each other, F, Cl, Br, I, CN, NO<sub>2</sub>, NCS, SF<sub>5</sub> or a straight chain or branched alkyl having 1 to 30 C-atoms that is unsubstituted, mono- or poly-substituted by F, Cl, Br, I or CN, and in which one or more non-adjacent CH<sub>2</sub> groups are optionally replaced, in each case independently from one

another, by -O-, -S-, -NH-, -NR<sup>0</sup>-, -SiR<sup>0</sup>R<sup>00</sup>-, -CO-, -COO-, -OCO-, -OCO-O-, -S-CO-, -CO-S-, -CY<sup>1</sup>=CY<sup>2</sup>- or -C≡C- in such a manner that O and/or S atoms are not linked directly to one another, or are P-Sp, and if alkoxy, then ethoxy, propoxy, butoxy, pentoxy, hexoxy, heptoxy, octoxy, nonoxy, decoxy, undecoxy, dodecoxy, tridecoxy or tetradecoxy,

R<sup>7</sup> to R<sup>10</sup> are, independently of each other, F, Cl, Br, I, NO<sub>2</sub>, NCS, SF<sub>5</sub> or a straight chain or branched alkyl having 1 to 30 C-atoms that is unsubstituted, mono- or poly-substituted by F, Cl, Br, I or CN, and in which one or more non-adjacent CH<sub>2</sub> groups are optionally replaced, in each case independently from one another, by -O-, -S-, -NH-, -NR<sup>0</sup>-, -SiR<sup>0</sup>R<sup>00</sup>-, -CO-, -COO-, -OCO-, -OCO-O-, -S-CO-, -CO-S-, -CY<sup>1</sup>=CY<sup>2</sup>- or -C≡C- in such a manner that O and/or S atoms are not linked directly to one another, or are P-Sp,

R<sup>0</sup> and R<sup>00</sup> are independently of each other H or alkyl with 1 to 12 C-atoms,

P is a polymerizable or reactive group,

Sp is a spacer group or a single bond,

s and t are independently of each other 0, 1, 2 or 3,

g is, in case of multiple occurrence independently of one another, 1, 2 or 3,

A is, in case of multiple occurrence independently of one another, -CX<sup>1</sup>=CX<sup>2</sup>-, -C≡C-, an aromatic or alicyclic ring or a group comprising two or more fused aromatic or alicyclic rings, wherein these rings optionally contain one or more hetero atoms selected from the group consisting of N, O and S, and are optionally mono- or polysubstituted by R<sup>3</sup>,

X<sup>1</sup> and X<sup>2</sup> are independently of each other H, F, Cl or CN,

Y<sup>1</sup> and Y<sup>2</sup> are independently of each other H, F, Cl or CN,

a is, in case of multiple occurrence independently of one another, 0 or 1, and

z is an integer of 2 to 5000,

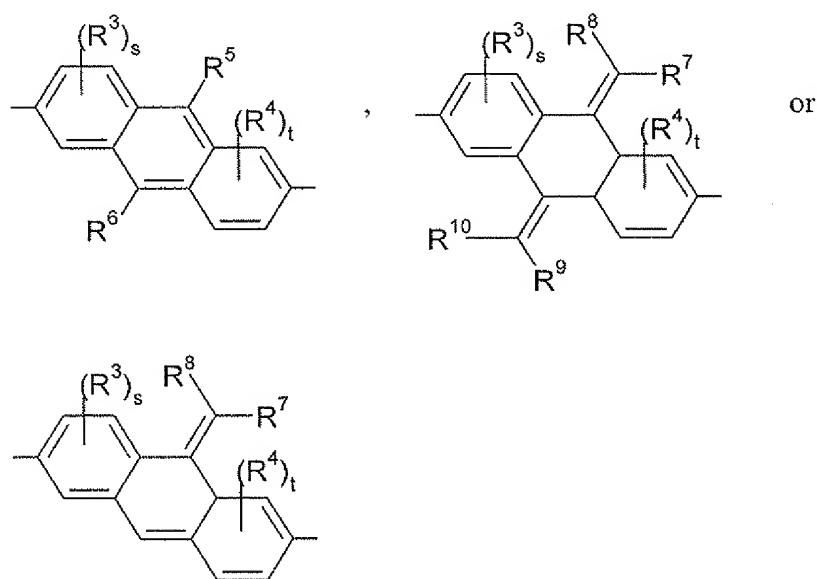
wherein the groups  $[(G)_g-(A)_a]$  can be identical or different.

3. (Currently Amended) A compound of formula IIA



wherein

G is, in case of multiple occurrence independently of one another,



$R^3$  to  $R^4$  are, independently of each other, F, Cl, Br, I, CN,  $\text{NO}_2$ , NCS,  $\text{SF}_5$  or a straight chain or branched alkyl having 1 to 30 C-atoms that is unsubstituted, mono- or poly-substituted by F, Cl, Br, I or CN, and in which one or more non-adjacent  $\text{CH}_2$  groups are optionally replaced, in each case independently from one

another, by -O-, -S-, -NH-, -NR<sup>0</sup>-, -SiR<sup>0</sup>R<sup>00</sup>-, -CO-, -COO-, -OCO-, -OCO-O-, -S-CO-, -CO-S-, -CY<sup>1</sup>=CY<sup>2</sup>- or -C≡C- in such a manner that O and/or S atoms are not linked directly to one another, or are P-Sp,

R<sup>5</sup> to R<sup>6</sup> are, independently of each other, F, I, NO<sub>2</sub>, NCS, SF<sub>5</sub> or a straight chain or branched alkyl having 1 to 30 C-atoms that is unsubstituted, mono- or poly-substituted by F, Cl, Br, I or CN, and in which one or more non-adjacent CH<sub>2</sub> groups are optionally replaced, in each case independently from one another, by -O-, -S-, -NH-, -NR<sup>0</sup>-, -SiR<sup>0</sup>R<sup>00</sup>-, -CO-, -COO-, -OCO-, -OCO-O-, -S-CO-, -CO-S-, -CY<sup>1</sup>=CY<sup>2</sup>- or -C≡C- in such a manner that O and/or S atoms are not linked directly to one another, or are P-Sp,

R<sup>7</sup> to R<sup>10</sup> are, independently of each other, F, Cl, Br, I, NO<sub>2</sub>, NCS, SF<sub>5</sub> or a straight chain or branched alkyl having 1 to 30 C-atoms that is unsubstituted, mono- or poly-substituted by F, Cl, Br, I or CN, and in which one or more non-adjacent CH<sub>2</sub> groups are optionally replaced, in each case independently from one another, by -O-, -S-, -NH-, -NR<sup>0</sup>-, -SiR<sup>0</sup>R<sup>00</sup>-, -CO-, -COO-, -OCO-, -OCO-O-, -S-CO-, -CO-S-, -CY<sup>1</sup>=CY<sup>2</sup>- or -C≡C- in such a manner that O and/or S atoms are not linked directly to one another, or are P-Sp,

R<sup>0</sup> and R<sup>00</sup> are independently of each other H or alkyl with 1 to 12 C-atoms,

P is a polymerizable or reactive group,

Sp is a spacer group or a single bond,

s and t are independently of each other 0, 1, 2 or 3,

g is, in case of multiple occurrence independently of one another, 1, 2 or 3,

A is, in case of multiple occurrence independently of one another, -CX<sup>1</sup>=CX<sup>2</sup>-, -C≡C-, an aromatic or alicyclic ring or a group comprising two or more fused aromatic or alicyclic rings, wherein these rings optionally contain one or more

hetero atoms selected from the group consisting of N, O and S, and are optionally mono- or polysubstituted by R<sup>3</sup>,

X<sup>1</sup> and X<sup>2</sup> are independently of each other H, F, Cl or CN,

Y<sup>1</sup> and Y<sup>2</sup> are independently of each other H, F, Cl or CN,

a is, in case of multiple occurrence independently of one another, 0 or 1,

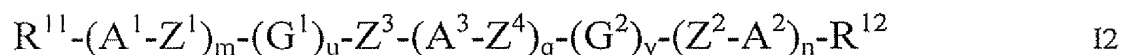
z is an integer  $\geq 1$ ,

R<sup>1</sup> and R<sup>2</sup> are, independently of each other, F, Br, I, CN, NO<sub>2</sub>, NCS, SF<sub>5</sub> or ~~a straight chain or branched alkyl having 1 to 30 C-atoms that is unsubstituted, mono or poly-substituted by F, Cl, Br, I or CN, and in which one or more non-adjacent CH<sub>2</sub> groups are optionally replaced, in each case independently from one another, by ~~O, S, NH, NR<sup>0</sup>, SiR<sup>0</sup>R<sup>00</sup>, CO, COO, OCO, OCO-O, S-CO, CO-S, CY<sup>1</sup>=CY<sup>2</sup> or C=C in such a manner that O and/or S atoms are not linked directly to one another, P-Sp, B(OR<sup>x</sup>)(OR<sup>x''</sup>), SnR<sup>x</sup>R<sup>xx</sup>R<sup>xxx</sup> or SiR<sup>x</sup>R<sup>xx</sup>R<sup>xxx</sup>, and if alkoxy, then ethoxy, propoxy, butoxy, pentoxy, hexoxy, heptoxy, octoxy, nonoxy, decoxy, undecoxy, dodecoxy, tridecoxy or tetradecoxy,~~~~

R<sup>x</sup>, R<sup>xx</sup> and R<sup>xxx</sup> are, independently of each other, H, aryl or alkyl with 1 to 12 C-atoms, and

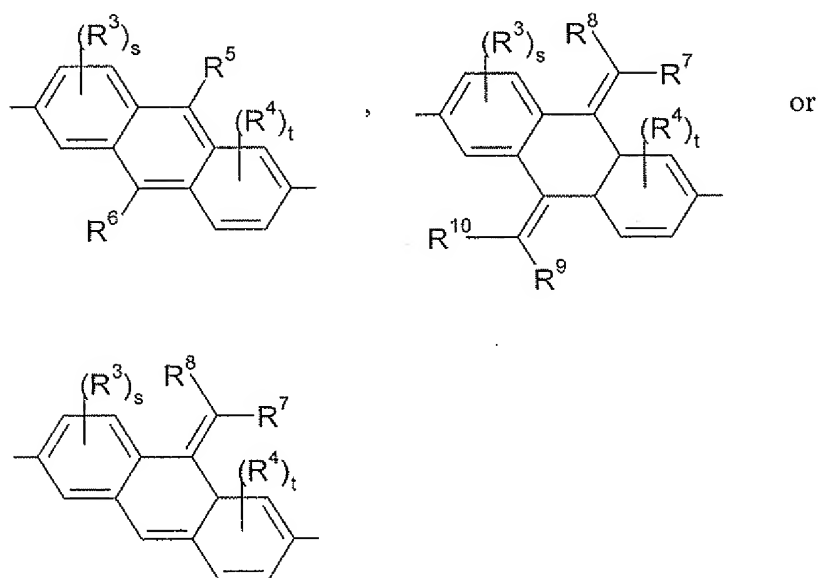
R<sup>x'</sup> and R<sup>x''</sup> are, independently of each other, H or alkyl with 1 to 12 C-atoms, or OR<sup>x'</sup> and OR<sup>x''</sup> together with the boron atom form a cyclic group having 2 to 10 C atoms.

4. (Currently Amended) A compound of formula 12



wherein

$G^1$  and  $G^2$  are, independently of each other and in case of multiple occurrence of either  $G^1$  and/or  $G^2$  each of such  $G^1$  and  $G^2$  independently of one another,



$R^3$  to  $R^4$  and

$R^{10}$  are, independently of each other, F, Cl, Br, I, CN,  $\text{NO}_2$ , NCS,  $\text{SF}_5$  or a straight chain or branched alkyl having 1 to 30 C-atoms that is unsubstituted, mono- or poly-substituted by F, Cl, Br, I or CN, and in which one or more non-adjacent  $\text{CH}_2$  groups are optionally replaced, in each case independently from one another, by -O-, -S-, -NH-,  $\text{-NR}^0$ -,  $\text{-SiR}^0\text{R}^{00}$ -, -CO-, -COO-, -OCO-, -OCO-O-, -S-CO-, -CO-S-,  $\text{-CY}^1=\text{CY}^2$ - or  $\text{-C}\equiv\text{C-}$  in such a manner that O and/or S atoms are not linked directly to one another, or are P-Sp,

$R^{11}$  and  $R^{12}$  are, independently of each other, F, Br, I, CN,  $\text{NO}_2$ , NCS,  $\text{SF}_5$  or a straight chain or branched alkyl having 1 to 30 C-atoms that is unsubstituted, mono- or poly-substituted by F, Cl, Br, I or CN, and in which one or more non-adjacent  $\text{CH}_2$  groups are optionally replaced, in each case independently from one another, by -O-, -S-, -NH-,  $\text{-NR}^0$ -,  $\text{-SiR}^0\text{R}^{00}$ -, -CO-, -COO-, -OCO-, -OCO-O-, -S-CO-, -

CO-S-, -CY<sup>1</sup>=CY<sup>2</sup>- or -C≡C- in such a manner that O and/or S atoms are not linked directly to one another, or are P-Sp, and if alkoxy, then ethoxy, propoxy, butoxy, pentoxy, hexoxy, heptoxy, octoxy, nonoxy, decoxy, undecoxy, dodecoxy, tridecoxy or tetradecoxy,

R<sup>5</sup> to R<sup>6</sup> are, independently of each other, F, I, NO<sub>2</sub>, NCS, SF<sub>5</sub> or a straight chain or branched alkyl having 1 to 30 C-atoms that is unsubstituted, mono- or poly-substituted by F, Cl, Br, I or CN, and in which one or more non-adjacent CH<sub>2</sub> groups are optionally replaced, in each case independently from one another, by -O-, -S-, -NH-, -NR<sup>0</sup>-, -SiR<sup>0</sup>R<sup>00</sup>-, -CO-, -COO-, -OCO-, -OCO-O-, -S-CO-, -CO-S-, -CY<sup>1</sup>=CY<sup>2</sup>- or -C≡C- in such a manner that O and/or S atoms are not linked directly to one another, or are P-Sp,

R<sup>7</sup> to R<sup>10</sup> are, independently of each other, F, Cl, Br, I, NO<sub>2</sub>, NCS, SF<sub>5</sub> or a straight chain or branched alkyl having 1 to 30 C-atoms that is unsubstituted, mono- or poly-substituted by F, Cl, Br, I or CN, and in which one or more non-adjacent CH<sub>2</sub> groups are optionally replaced, in each case independently from one another, by -O-, -S-, -NH-, -NR<sup>0</sup>-, -SiR<sup>0</sup>R<sup>00</sup>-, -CO-, -COO-, -OCO-, -OCO-O-, -S-CO-, -CO-S-, -CY<sup>1</sup>=CY<sup>2</sup>- or -C≡C- in such a manner that O and/or S atoms are not linked directly to one another, or are P-Sp,

R<sup>0</sup> and R<sup>00</sup> are independently of each other H or alkyl with 1 to 12 C-atoms,

P is a polymerizable or reactive group,

Sp is a spacer group or a single bond,

s and t are independently of each other 0, 1, 2 or 3,

A<sup>1</sup> to A<sup>3</sup> are, independently of each other and in case of multiple occurrence of any of A<sup>1</sup> to A<sup>3</sup> each of such A<sup>1</sup> to A<sup>3</sup> independently of one another, -CX<sup>1</sup>=CX<sup>2</sup>-, -C≡C-, an aromatic or alicyclic ring or a group comprising two or more fused aromatic or alicyclic rings, wherein these rings optionally contain one or more hetero

atoms selected from the group consisting of N, O and S, and are optionally mono- or polysubstituted by R<sup>3</sup>,

X<sup>1</sup> and X<sup>2</sup> are independently of each other H, F, Cl or CN,

Z<sup>1</sup> to Z<sup>4</sup> are, independently of each other, -O-, -S-, -CO-, -COO-, -OCO-, -S-CO-, -CO-S-, -O-COO-, -CO-NR<sup>0</sup>-, -NR<sup>0</sup>-CO-, -OCH<sub>2</sub>-, -CH<sub>2</sub>O-, -SCH<sub>2</sub>-, -CH<sub>2</sub>S-, -CF<sub>2</sub>O-, -OCF<sub>2</sub>-, -CF<sub>2</sub>S-, -SCF<sub>2</sub>-, -CH<sub>2</sub>CH<sub>2</sub>-, -CF<sub>2</sub>CH<sub>2</sub>-, -CH<sub>2</sub>CF<sub>2</sub>-, -CF<sub>2</sub>CF<sub>2</sub>-, -CH=N-, -N=CH-, -N=N-, -CH=CR<sup>0</sup>-, -CY<sup>1</sup>=CY<sup>2</sup>-, -C≡C-, -CH=CH-COO-, -OCO-CH=CH- or a single bond,

Y<sup>1</sup> and Y<sup>2</sup> are independently of each other H, F, Cl or CN,

m, n and q are independently of each other 0, 1, 2 or 3, wherein at least one of m, n and q is 1, 2 or 3, and

u and v are independently of each other 0, 1 or 2, with u+v > 0.

5. (Previously Presented) A compound according to claim 3, wherein z is an integer of 2 to 5000.

6. (Previously Presented) A compound according to claim 3, wherein z is an integer of 1 to 15.

7. (Previously Presented) A compound according to claim 3, wherein one or both of R<sup>1</sup> and R<sup>2</sup> denote P-Sp-.

8. (Currently Amended) A compound according to claim 2, wherein R<sup>3</sup> and R<sup>4</sup> are, each independently, F, Cl, CN, alkyl, oxaalkyl, alkoxy, alkylcarbonyl or alkoxycarbonyl with 1 to 15 C-atoms or alkenyl, alkenyloxy or alkynyl with 2 to 15 C-atoms, and if alkoxy, then ethoxy, propoxy, butoxy, pentoxy, hexoxy, heptoxy, octoxy, nonoxy, decoxy, undecoxy, dodecoxy, tridecoxy or tetradecoxy.

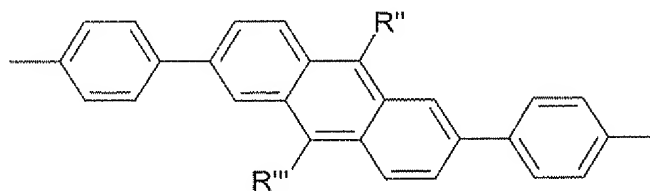


9. (Currently Amended) A compound according to claim 2, wherein  $R^{5-6}$  are, each independently, F, Cl, CN,  $C_1$ - $C_{20}$ -alkyl that is optionally substituted with one or more fluorine atoms,  $C_2$ - $C_{20}$ -alkenyl,  $C_2$ - $C_{20}$ -alkynyl, alkoxy,  $C_1$ - $C_{20}$ -alkoxy,  $C_1$ - $C_{20}$ -thioalkyl,  $C_1$ - $C_{20}$ -silyl,  $C_1$ - $C_{20}$ -ester,  $C_1$ - $C_{20}$ -amino,  $C_1$ - $C_{20}$ -fluoroalkyl, or  $(CH_2CH_2O)_m$  with m being an integer of 1 to 6, and if alkoxy, then ethoxy, propoxy, butoxy, pentoxy, hexoxy, heptoxy, octoxy, nonoxy, decoxy, undecoxy, dodecoxy, tridecoxy or tetradecoxy, and  $R^{7-10}$  are, each independently, F, Cl,  $C_1$ - $C_{20}$ -alkyl that is optionally substituted with one or more fluorine atoms,  $C_2$ - $C_{20}$ -alkenyl,  $C_2$ - $C_{20}$ -alkynyl,  $C_1$ - $C_{20}$ -alkoxy,  $C_1$ - $C_{20}$ -thioalkyl,  $C_1$ - $C_{20}$ -silyl,  $C_1$ - $C_{20}$ -ester,  $C_1$ - $C_{20}$ -amino,  $C_1$ - $C_{20}$ -fluoroalkyl, or  $(CH_2CH_2O)_m$  with m being an integer of 1 to 6.

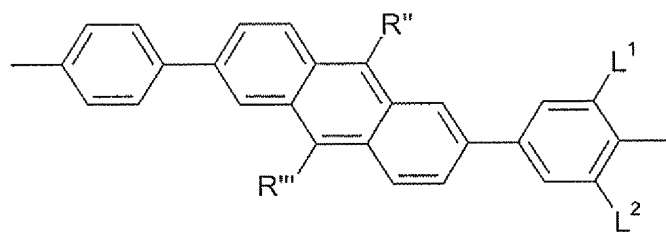
10. (Previously Presented) A compound according to Claim 2, wherein A, each independently, are furane-2,5-diyl, thiophene-2,5-diyl, thienothiophene-2,5-diyl, dithienothiophene-2,6-diyl, pyrrol-2,5-diyl, 1,4-phenylene, azulene-2,6-diyl, pyridine-2,5-diyl, pyrimidine-2,5-diyl, naphthalene-2,6-diyl, 1,2,3,4-tetrahydro-naphthalene-2,6-diyl, indane-2,5-diyl, or 1,4-cyclohexylene, in which 1,4-cyclohexylene one or two non-adjacent  $CH_2$  groups are optionally replaced by O and/or S, wherein these groups are unsubstituted, mono- or polysubstituted by  $R^3$ .

11. (Previously Presented) A compound according to claim 2, wherein P is a vinyl ether, propenyl ether or oxetane group.

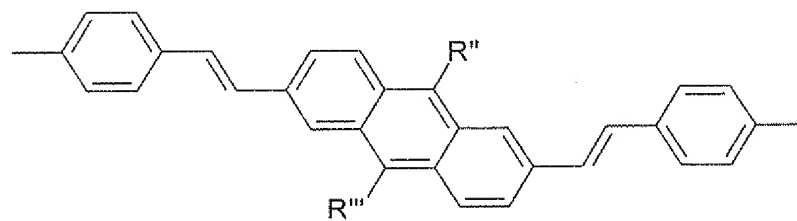
12. (Currently Amended) A compound, which includes a group of formula Ia, Ib, Ic, Id, ~~Ie, If, Ig,~~ Ih, Ii, Ik, Im, In or Io



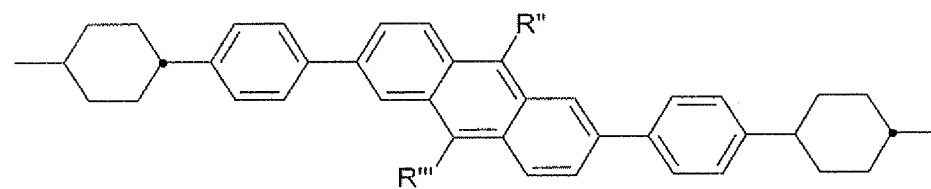
Ia



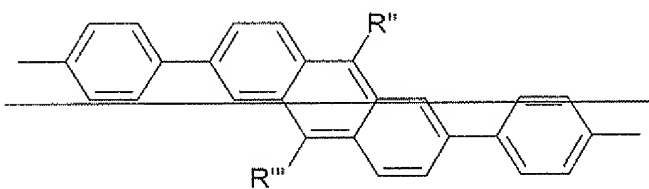
Ib



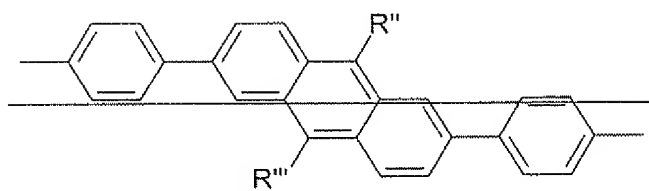
Ic



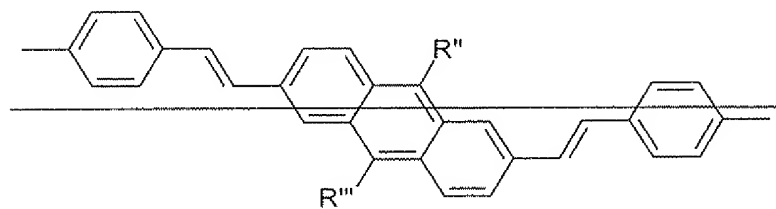
Id



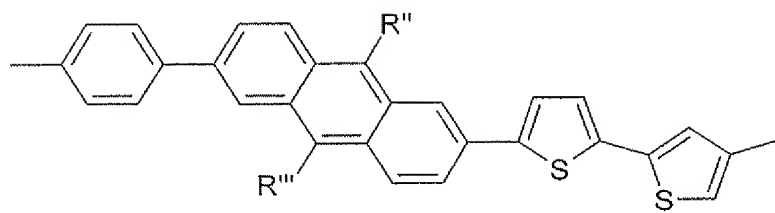
Ie



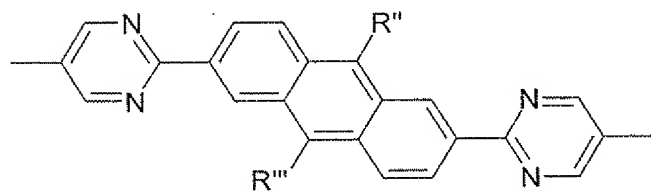
If



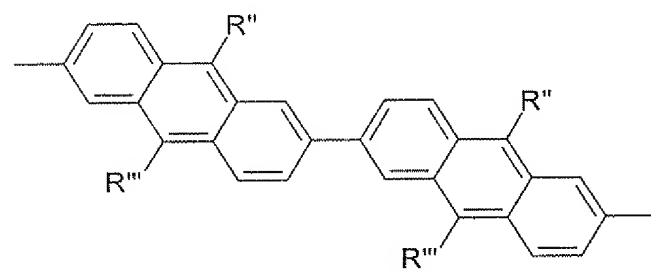
Ig



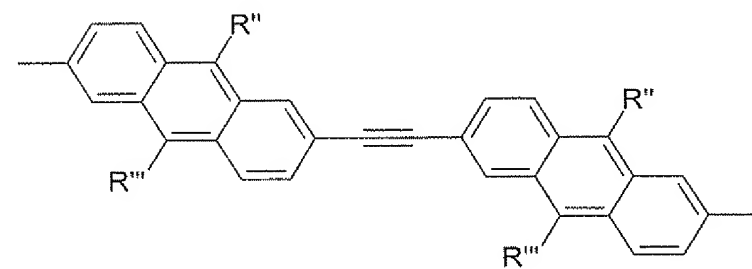
Ih



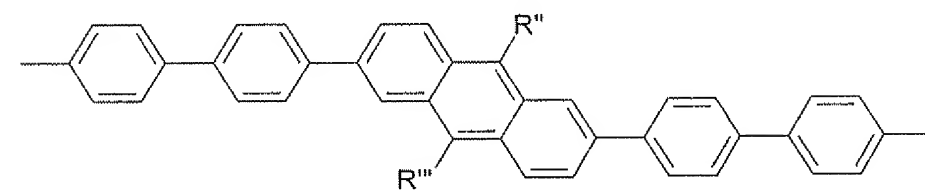
Ii



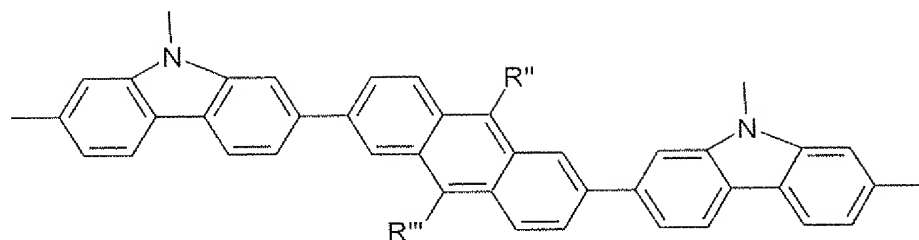
Ik



Im



In



10

wherein

$R''$  and  $R'''$  are, independently of each other, F, Cl, Br, I, CN,  $\text{NO}_2$ , NCS,  $\text{SF}_5$  or a straight chain or branched alkyl having 1 to 30 C-atoms that is unsubstituted, mono- or poly-substituted by F, Cl, Br, I or CN, and in which one or more non-adjacent  $\text{CH}_2$  groups are optionally replaced, in each case independently from one another, by -O-, -S-, -NH-,  $\text{-NR}^0$ -,  $\text{-SiR}^0\text{R}^{00}$ -, -CO-, -COO-, -OCO-, -OCO-O-, -S-CO-, -CO-S-,  $\text{-CY}^1=\text{CY}^2$ - or  $\text{-C}\equiv\text{C-}$  in such a manner that O and/or S atoms are not linked directly to one another, or are P-Sp,

$\text{R}^0$  and  $\text{R}^{00}$  are independently of each other H or alkyl with 1 to 12 C-atoms, and

$\text{Y}^1$  and  $\text{Y}^2$  are independently of each other H, F, Cl or CN,

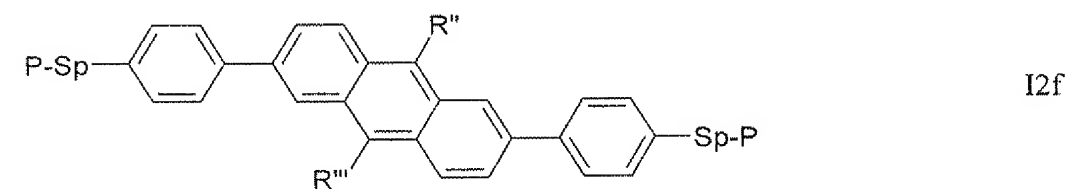
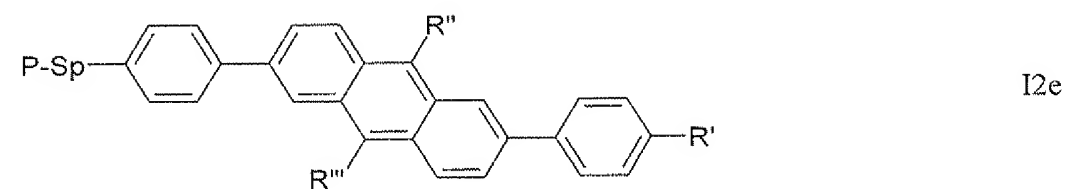
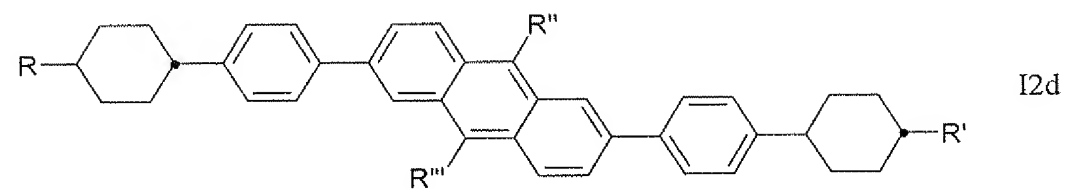
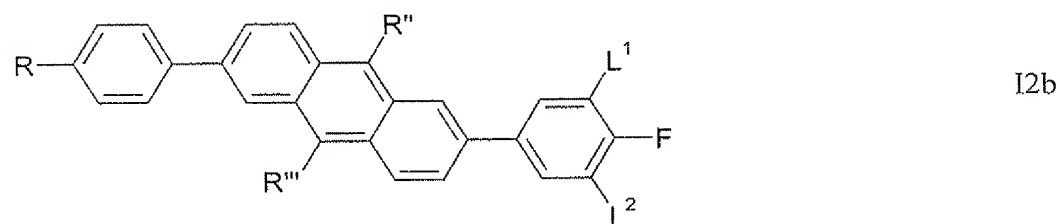
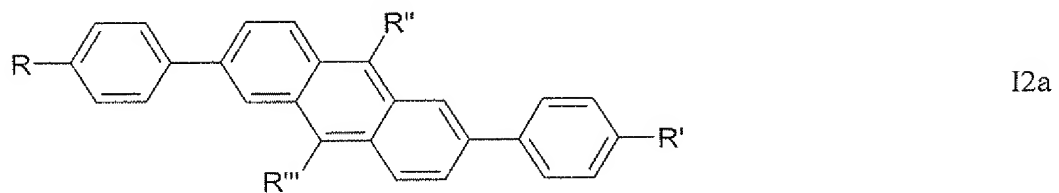
$\text{L}^1$  and  $\text{L}^2$  are independently of each other H or F,

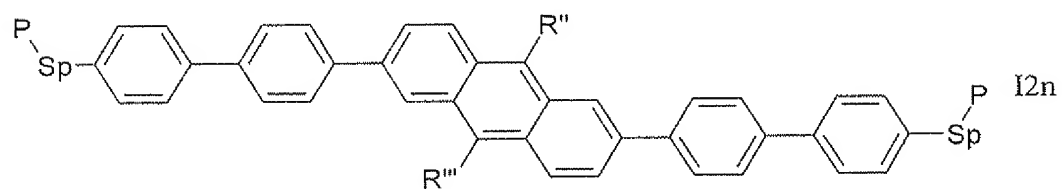
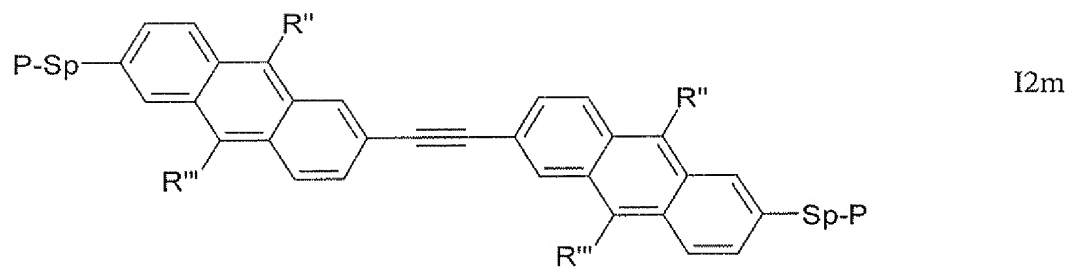
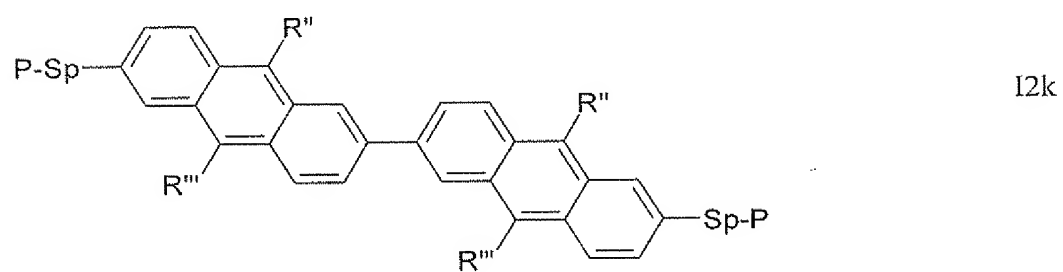
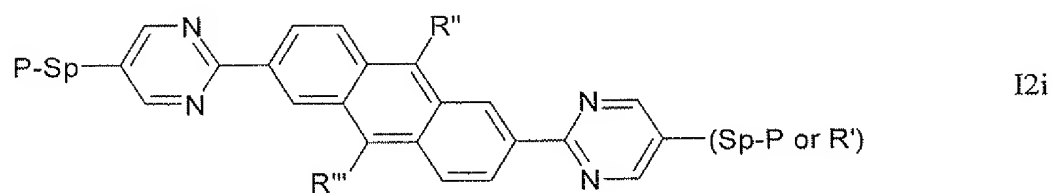
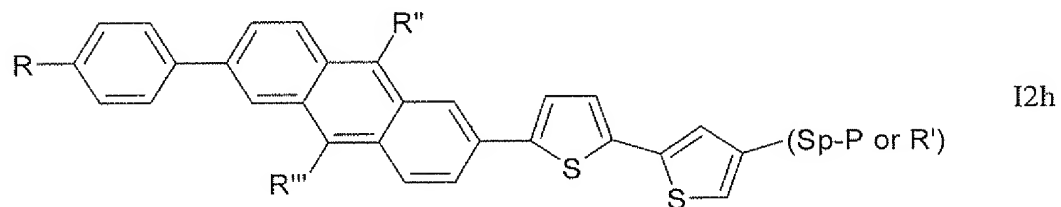
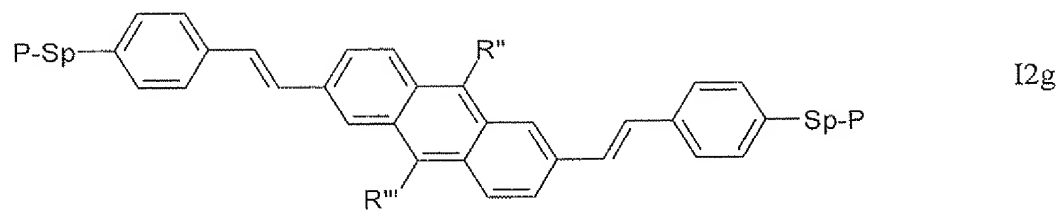
P is a polymerizable or reactive group, and

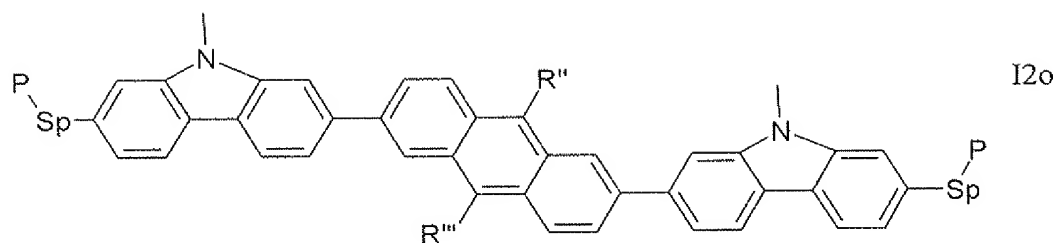
Sp is a spacer group or a single bond,

and the aromatic rings are optionally substituted with 1, 2 or 3 F, Cl, Br, I, CN,  $\text{NO}_2$ , NCS,  $\text{SF}_5$  or a straight chain or branched alkyl having 1 to 30 C-atoms that is unsubstituted, mono- or poly-substituted by F, Cl, Br, I or CN, and in which one or more non-adjacent  $\text{CH}_2$  groups are optionally replaced, in each case independently from one another, by -O-, -S-, -NH-,  $\text{-NR}^0$ -,  $\text{-SiR}^0\text{R}^{00}$ -, -CO-, -COO-, -OCO-, -OCO-O-, -S-CO-, -CO-S-,  $\text{-CY}^1=\text{CY}^2$ - or  $\text{-C}\equiv\text{C-}$  in such a manner that O and/or S atoms are not linked directly to one another, or with P-Sp.

13. (Previously Presented) A compound, which is of one of the following formulae







wherein

P is a polymerizable or reactive group,

Sp is a spacer group or a single bond,

R and R' are, independently of each other, F, Cl, Br, I, CN, NO<sub>2</sub>, NCS, SF<sub>5</sub> or a straight chain or branched alkyl having 1 to 30 C-atoms that is unsubstituted, mono- or poly-substituted by F, Cl, Br, I or CN, and in which one or more non-adjacent CH<sub>2</sub> groups are optionally replaced, in each case independently from one another, by -O-, -S-, -NH-, -NR<sup>0</sup>-, -SiR<sup>0</sup>R<sup>00</sup>-, -CO-, -COO-, -OCO-, -OCO-O-, -S-CO-, -CO-S-, -CY<sup>1</sup>=CY<sup>2</sup>- or -C≡C- in such a manner that O and/or S atoms are not linked directly to one another, or are P-Sp, B(OR<sup>x1</sup>)(OR<sup>x11</sup>), SnR<sup>x</sup>R<sup>xx</sup>R<sup>xxx</sup> or SiR<sup>x</sup>R<sup>xx</sup>R<sup>xxx</sup>,

R<sup>x</sup>, R<sup>xx</sup> and R<sup>xxx</sup> are, independently of each other, H, aryl or alkyl with 1 to 12 C-atoms,

R<sup>x1</sup> and R<sup>x11</sup> are, independently of each other, H or alkyl with 1 to 12 C-atoms, or OR<sup>x1</sup> and OR<sup>x11</sup> together with the boron atom form a cyclic group having 2 to 10 C atoms

R'' and R''' are, independently of each other, F, Cl, Br, I, CN, NO<sub>2</sub>, NCS, SF<sub>5</sub> or a straight chain or branched alkyl having 1 to 30 C-atoms that is unsubstituted, mono- or poly-substituted by F, Cl, Br, I or CN, and in which one or more non-adjacent CH<sub>2</sub> groups are optionally replaced, in each case independently from one another, by -O-, -S-, -NH-, -NR<sup>0</sup>-, -SiR<sup>0</sup>R<sup>00</sup>-, -CO-, -COO-, -OCO-, -OCO-O-,

-S-CO-, -CO-S-, -CY<sup>1</sup>=CY<sup>2</sup>- or -C≡C- in such a manner that O and/or S atoms are not linked directly to one another, or are P-Sp,

L<sup>1</sup> and L<sup>2</sup> are independently of each other H or F,

R<sup>0</sup> and R<sup>00</sup> are independently of each other H or alkyl with 1 to 12 C-atoms, and

Y<sup>1</sup> and Y<sup>2</sup> are independently of each other H, F, Cl or CN,

and the aromatic rings are optionally substituted with 1, 2 or 3 F, Cl, Br, I, CN, NO<sub>2</sub>, NCS, SF<sub>5</sub> or a straight chain or branched alkyl having 1 to 30 C-atoms that is unsubstituted, mono- or poly-substituted by F, Cl, Br, I or CN, and in which one or more non-adjacent CH<sub>2</sub> groups are optionally replaced, in each case independently from one another, by -O-, -S-, -NH-, -NR<sup>0</sup>-, -SiR<sup>0</sup>R<sup>00</sup>-, -CO-, -COO-, -OCO-, -OCO-O-, -S-CO-, -CO-S-, -CY<sup>1</sup>=CY<sup>2</sup>- or -C≡C- in such a manner that O and/or S atoms are not linked directly to one another, or with P-Sp.

14. (Previously Presented) An LC medium comprising at least one compound according to Claim 2.

15. (Previously Presented) A polymerizable LC material comprising at least one compound according to Claim 2 and optionally at least one further compound, wherein at least one of said compounds is polymerizable.

16. (Previously Presented) A polymer which has been obtained by polymerizing a compound of formula I1 according to Claim 2 or a polymerizable LC material comprising at least one compound of formula I1 and optionally at least one further compound, wherein at least one of said compounds is polymerizable.

17. (Previously Presented) An anisotropic polymer which has been obtained by polymerizing a compound of formula I1 according to Claim 2 or a polymerizable LC material comprising a compound of formula I1 in its oriented state in form of a film.

18. (Previously Presented) A semiconductor or charge transport material



comprising at least one

compound of formula I1 according to Claim 2,

polymerizable LC material comprising at least one compound of formula I1 and optionally at least one further compound, wherein at least one of said compounds is polymerizable, or

polymer which has been obtained by polymerizing a compound of formula I1 or a polymerizable LC material comprising at least one compound of formula I1 and optionally at least one further compound, wherein at least one of said compounds is polymerizable.

19. (Previously Presented) A light-emissive material comprising at least one compound of formula I1 according to Claim 2,

polymerizable LC material comprising at least one compound of formula I1 and optionally at least one further compound, wherein at least one of said compounds is polymerizable, or

polymer which has been obtained by polymerizing a compound of formula I1 or a polymerizable LC material comprising at least one compound of formula I1 and optionally at least one further compound, wherein at least one of said compounds is polymerizable.

20. (Previously Presented) An electrooptical display, LCD, eLCD, optical film, polarizer, compensator, beam splitter, reflective film, alignment layer, color filter, holographic element, hot stamping foil, colored image, decorative or security marking, consumer object, document of value, LC pigment, adhesive, synthetic resin with anisotropic mechanical properties, cosmetic product, pharmaceutical product, diagnostic product, nonlinear optical element, optical information storage device, a chiral dopant, an electronic device, OFET, a component of an integrated circuit (IC), thin film transistor (TFT) in a flat panel display, Radio Frequency Identification (RFID) tag, a semiconducting or light-emitting component of organic light emitting diode (OLED), electroluminescent display or backlight of an LCD, photovoltaic or sensor device, an electrode material in a battery, a photoconductor, or electrophotographic recording or alignment layer in an LCD or OLED device, comprising at least one

compound of formula I1 according to Claim 2,

polymerizable LC material comprising at least one compound of formula I1 and optionally at least one further compound, wherein at least one of said compounds is

polymerizable, or

polymer which has been obtained by polymerizing a compound of formula I1 or a polymerizable LC material comprising at least one compound of formula I1 and optionally at least one further compound, wherein at least one of said compounds is polymerizable,

or a semiconductor or light-emitting material comprising at least one of said compound, polymerizable LC material or polymer.

21. (Previously Presented) An optical electrooptical or electronic device, LCD, eLCD, OLED, OFET, IC, TFT or alignment layer, comprising at least one compound of formula I1 according to Claim 2,

polymerizable LC material comprising at least one compound of formula I1 and optionally at least one further compound, wherein at least one of said compounds is polymerizable, or

polymer which has been obtained by polymerizing a compound of formula I1 or a polymerizable LC material comprising at least one compound of formula I1 and optionally at least one further compound, wherein at least one of said compounds is polymerizable,

or a semiconductor or light-emitting material comprising at least one of said compound, polymerizable LC material or polymer.

22. (Previously Presented) A TFT or TFT array for a flat panel display, RFID tag, electroluminescent display or backlight, comprising at least one compound of formula I1 according to Claim 2,

polymerizable LC material comprising at least one compound of formula I1 and optionally at least one further compound, wherein at least one of said compounds is polymerizable, or

polymer which has been obtained by polymerizing a compound of formula I1 or a polymerizable LC material comprising at least one compound of formula I1 and optionally at least one further compound, wherein at least one of said compounds is polymerizable,

or a semiconductor or light-emitting material comprising at least one of said compound, polymerizable LC material or polymer.

23. (Previously Presented) A security marking or device, comprising at least one

compound of formula I1 according to Claim 2,

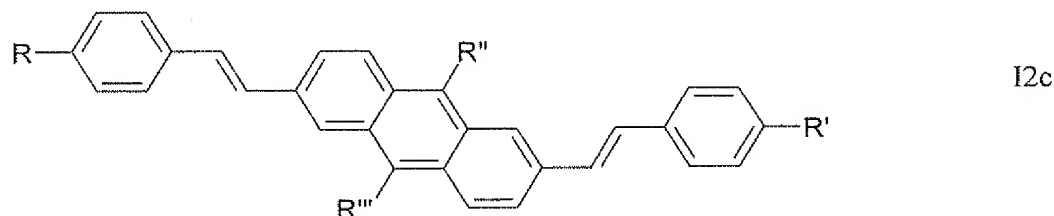
polymerizable LC material comprising at least one compound of formula I1 and optionally at least one further compound, wherein at least one of said compounds is polymerizable, or

polymer which has been obtained by polymerizing a compound of formula I1 or a polymerizable LC material comprising at least one compound of formula I1 and optionally at least one further compound, wherein at least one of said compounds is polymerizable,

or a semiconductor or light-emitting material comprising at least one of said compound, polymerizable LC material or polymer.

24. (Previously Presented) A compound according to Claim 4, wherein A<sup>1-3</sup> are, each independently, furane-2,5-diyl, thiophene-2,5-diyl, thienothiophene-2,5-diyl, dithienothiophene-2,6-diyl, pyrrol-2,5-diyl, 1,4-phenylene, azulene-2,6-diyl, pyridine-2,5-diyl, pyrimidine-2,5-diyl, naphthalene-2,6-diyl, 1,2,3,4-tetrahydro-naphthalene-2,6-diyl, indane-2,5-diyl, or 1,4-cyclohexylene, in which 1,4-cyclohexylene one or two non-adjacent CH<sub>2</sub> groups are optionally replaced by O and/or S, wherein these groups are unsubstituted, mono- or polysubstituted by R<sup>3</sup>.

25. (Previously Presented) A compound, which is of formulae I2c



wherein

R and R' are, independently of each other, F, Cl, Br, I, CN, NO<sub>2</sub>, NCS, SF<sub>5</sub> or a straight chain or branched alkyl having 1 to 30 C-atoms that is unsubstituted, mono- or poly-substituted by F, Cl, Br, I or CN, and in which one or more non-adjacent CH<sub>2</sub> groups are optionally replaced, in each case independently from one another, by -O-, -S-, -NH-, -NR<sup>0</sup>-, -SiR<sup>0</sup>R<sup>00</sup>-, -CO-, -COO-, -OCO-, -OCO-O-,

-S-CO-, -CO-S-, -CY<sup>1</sup>=CY<sup>2</sup>- or -C≡C- in such a manner that O and/or S atoms are not linked directly to one another, or are P-Sp, B(OR<sup>x</sup>)(OR<sup>x''</sup>), SnR<sup>x</sup>R<sup>xx</sup>R<sup>xxx</sup> or SiR<sup>x</sup>R<sup>xx</sup>R<sup>xxx</sup>,

R<sup>x</sup>, R<sup>xx</sup> and

R<sup>xxx</sup> are, independently of each other, H, aryl or alkyl with 1 to 12 C-atoms,

R<sup>x'</sup> and R<sup>x''</sup> are, independently of each other, H or alkyl with 1 to 12 C-atoms, or OR<sup>x'</sup> and OR<sup>x''</sup> together with the boron atom form a cyclic group having 2 to 10 C atoms

R<sup>''</sup> and R<sup>'''</sup> are, independently of each other, F, Cl, Br, I, NO<sub>2</sub>, NCS, SF<sub>5</sub> or a straight chain or branched alkyl having 1 to 30 C-atoms that is unsubstituted, mono- or poly-substituted by F, Cl, Br, I or CN, and in which one or more non-adjacent CH<sub>2</sub> groups are optionally replaced, in each case independently from one another, by -O-, -S-, -NH-, -NR<sup>0</sup>-, -SiR<sup>0</sup>R<sup>00</sup>-, -CO-, -COO-, -OCO-, -OCO-O-, -S-CO-, -CO-S-, -CY<sup>1</sup>=CY<sup>2</sup>- or -C≡C- in such a manner that O and/or S atoms are not linked directly to one another, or are P-Sp,

R<sup>0</sup> and R<sup>00</sup> are independently of each other H or alkyl with 1 to 12 C-atoms, and

Y<sup>1</sup> and Y<sup>2</sup> are independently of each other H, F, Cl or CN,

and the aromatic rings are optionally substituted with 1, 2 or 3 F, Cl, Br, I, CN, NO<sub>2</sub>, NCS, SF<sub>5</sub> or a straight chain or branched alkyl having 1 to 30 C-atoms that is unsubstituted, mono- or poly-substituted by F, Cl, Br, I or CN, and in which one or more non-adjacent CH<sub>2</sub> groups are optionally replaced, in each case independently from one another, by -O-, -S-, -NH-, -NR<sup>0</sup>-, -SiR<sup>0</sup>R<sup>00</sup>-, -CO-, -COO-, -OCO-, -OCO-O-, -S-CO-, -CO-S-, -CY<sup>1</sup>=CY<sup>2</sup>- or -C≡C- in such a manner that O and/or S atoms are not linked directly to one another, or with P-Sp.

26. (Previously Presented) A compound according to claim 2, wherein R<sup>5</sup> to R<sup>6</sup> are, independently of each other, F, I, NO<sub>2</sub>, NCS, SF<sub>5</sub> or a straight chain or branched alkyl having 1 to 30 C-atoms that is unsubstituted, mono- or poly-substituted by F, Cl, Br, I or CN, and in which one or more non-adjacent CH<sub>2</sub> groups are optionally replaced, in each case independently from one another, by -

O-, -S-, -NH-, -NR<sup>0</sup>-, -SiR<sup>0</sup>R<sup>00</sup>-, -CO-, -COO-, -OCO-, -OCO-O-, -S-CO-, -CO-S-, -CY<sup>1</sup>=CY<sup>2</sup>- or -C≡C- in such a manner that O and/or S atoms are not linked directly to one another, or are P-Sp.

27. (Previously Presented) A compound according to claim 2, wherein  
R<sup>5</sup> to R<sup>6</sup> are, independently of each other, NO<sub>2</sub>, NCS, SF<sub>5</sub> or a straight chain or branched alkyl having 1 to 30 C-atoms that is unsubstituted, mono- or poly-substituted by F, Cl, Br, I or CN, and in which one or more non-adjacent CH<sub>2</sub> groups are optionally replaced, in each case independently from one another, by -O-, -S-, -NH-, -NR<sup>0</sup>-, -SiR<sup>0</sup>R<sup>00</sup>-, -CO-, -COO-, -OCO-, -OCO-O-, -S-CO-, -CO-S-, -CY<sup>1</sup>=CY<sup>2</sup>- or -C≡C- in such a manner that O and/or S atoms are not linked directly to one another, or are P-Sp.

28. (Previously Presented) A compound according to claim 3, wherein  
R<sup>5</sup> to R<sup>6</sup> are, independently of each other, NO<sub>2</sub>, NCS, SF<sub>5</sub> or a straight chain or branched alkyl having 1 to 30 C-atoms that is unsubstituted, mono- or poly-substituted by F, Cl, Br, I or CN, and in which one or more non-adjacent CH<sub>2</sub> groups are optionally replaced, in each case independently from one another, by -O-, -S-, -NH-, -NR<sup>0</sup>-, -SiR<sup>0</sup>R<sup>00</sup>-, -CO-, -COO-, -OCO-, -OCO-O-, -S-CO-, -CO-S-, -CY<sup>1</sup>=CY<sup>2</sup>- or -C≡C- in such a manner that O and/or S atoms are not linked directly to one another, or are P-Sp.

29. (Previously Presented) A compound according to claim 4, wherein  
R<sup>5</sup> to R<sup>6</sup> are, independently of each other, NO<sub>2</sub>, NCS, SF<sub>5</sub> or a straight chain or branched alkyl having 1 to 30 C-atoms that is unsubstituted, mono- or poly-substituted by F, Cl, Br, I or CN, and in which one or more non-adjacent CH<sub>2</sub> groups are optionally replaced, in each case independently from one another, by -O-, -S-, -NH-, -NR<sup>0</sup>-, -SiR<sup>0</sup>R<sup>00</sup>-, -CO-, -COO-, -OCO-, -OCO-O-, -S-CO-, -CO-S-, -CY<sup>1</sup>=CY<sup>2</sup>- or -C≡C- in such a manner that O and/or S atoms are not linked directly to one another, or are P-Sp.

30. (Previously Presented) A compound according to claim 3, wherein  
R<sup>1</sup> and R<sup>2</sup> are, independently of each other, CN, NO<sub>2</sub>, NCS, SF<sub>5</sub> or a straight chain or

branched alkyl having 1 to 30 C-atoms that is unsubstituted, mono- or poly-substituted by F, Cl, Br, I or CN, and in which one or more non-adjacent CH<sub>2</sub> groups are optionally replaced, in each case independently from one another, by -O-, -S-, -NH-, -NR<sup>0</sup>-, -SiR<sup>0</sup>R<sup>00</sup>-, -CO-, -COO-, -OCO-, -OCO-O-, -S-CO-, -CO-S-, -CY<sup>1</sup>=CY<sup>2</sup>- or -C≡C- in such a manner that O and/or S atoms are not linked directly to one another, P-Sp, B(OR<sup>x'</sup>)(OR<sup>x''</sup>), SnR<sup>x</sup>R<sup>xx</sup>R<sup>xxx</sup> or SiR<sup>x</sup>R<sup>xx</sup>R<sup>xxx</sup>, and if alkoxy, then propoxy, butoxy, pentoxy, hexoxy, heptoxy, octoxy, nonoxy, decoxy, undecoxy, dodecoxy, tridecoxy or tetradecoxy.

31. (Previously Presented) A compound according to claim 4, wherein R<sup>11</sup> and R<sup>12</sup> are, independently of each other, CN, NO<sub>2</sub>, NCS, SF<sub>5</sub> or a straight chain or branched alkyl having 1 to 30 C-atoms that is unsubstituted, mono- or poly-substituted by F, Cl, Br, I or CN, and in which one or more non-adjacent CH<sub>2</sub> groups are optionally replaced, in each case independently from one another, by -O-, -S-, -NH-, -NR<sup>0</sup>-, -SiR<sup>0</sup>R<sup>00</sup>-, -CO-, -COO-, -OCO-, -OCO-O-, -S-CO-, -CO-S-, -CY<sup>1</sup>=CY<sup>2</sup>- or -C≡C- in such a manner that O and/or S atoms are not linked directly to one another, or are P-Sp, and if alkoxy, then propoxy, butoxy, pentoxy, hexoxy, heptoxy, octoxy, nonoxy, decoxy, undecoxy, dodecoxy, tridecoxy or tetradecoxy.

32. (New) A compound according to claim 4, wherein at least one of m, n and q is 1.